

A Practical Guide to Supramolecular Chemistry

Peter J. Cragg

 WILEY

A Practical Guide To Supramolecular Chemistry

Hans-Jorg Schneider



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Supramolecular Chemistry François Diederich, Peter J. Stang, Rik R. Tykwinski, 2008-06-25 Written by internationally acclaimed experts this handy volume covers all major classes of supramolecular compounds Chapters include cyclophanes resorcinarene and calixarene synthesis supramolecular metallomacrocycles and macrocycle synthesis rotaxane and catenane synthesis cucurbiturils and porphyrins as well as macrocyclic drugs Each chapter contains experimental procedures allowing fast access to this type of synthetic chemistry **Applications of Supramolecular Chemistry** Hans-Jorg

Schneider, 2012-03-28 Applications of Supramolecular Chemistry introduces the use of non covalent interactions and molecular recognition for many fields Applications include the analysis of technically medically and environmentally important chemical compounds their separation purification and removal and the design of new materials including supramolecular elect *Supramolecular Chemistry in Corrosion and Biofouling Protection* Viswanathan S. Saji, 2021-12-23 Supramolecular chemistry the chemistry beyond the molecule is a fascinating realm of modern science The design of novel supramolecular structures surfaces and techniques are at the forefront of research in different application areas including corrosion and biofouling protection A team of international experts provide a comprehensive view of the applications and potential of supramolecular chemistry in corrosion and biofouling prevention Chapter topics include types and fundamentals of supramolecules supramolecular polymers and gels host guest inclusion compounds organic inorganic hybrid materials metallo assemblies cyclodextrins crown ethers mesoporous silica and supramolecular structures of graphene and other advances Additional Features include Focuses on different aspects of supramolecular chemistry in corrosion and biofouling prevention Comprehensively covers supramolecular interactions that can provide better corrosion and biofouling protection Provides the latest developments in self healing coatings Explores recent research advancements in the suggested area

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Host-Guest Chemistry Brian D. Wagner, 2020-10-26 This textbook addresses the chemical and physicochemical principles of supramolecular host guest chemistry in solution It covers the thermodynamics and dynamics of inclusion and highlights several types of organic hosts Various applications of host guest chemistry in analytical and environmental chemistry as well as pharmaceutical and chemical industry demonstrate the versatile usability of molecular cages

Supramolecular Chemistry in Water Stefan Kubik, 2019-09-03 Provides deep insight into the concepts and recent developments in the area of supramolecular chemistry in water Written by experts in their respective field this comprehensive reference covers various aspects of supramolecular chemistry in water from fundamental aspects to applications It provides readers with a basic introduction to the current understanding of the properties of water and how they influence molecular recognition and examines the different receptor types available in water and the types of substrates that can be bound It also looks at areas to where they can be applied such as materials optical sensing medicinal imaging and catalysis Supramolecular Chemistry in Water offers five major sections that address important topics like water properties molecular recognition association and aggregation phenomena optical detection and imaging and supramolecular catalysis It covers chemistry and physical chemistry of water water mediated molecular recognition peptide and protein receptors nucleotide receptors carbohydrate receptors and ion receptors The book also teaches readers all about coordination compounds self assembled polymers and gels foldamers vesicles and micelles and surface modified nanoparticles In addition it provides in depth information on indicators and optical probes as well as probes for medical imaging Covers in a timely manner an emerging area in chemistry that is growing more important every day Addresses topics such as molecular recognition aggregation catalysis and more Offers comprehensive coverage of everything from fundamental aspects of supramolecular chemistry in water to its applications Edited by one of the leading international scientists in the field Supramolecular Chemistry in Water is a one stop resource for all polymer chemists catalytic chemists biochemists water chemists and physical chemists involved in this growing area of research

Encyclopedia of Supramolecular Chemistry - Two-Volume Set (Print) Jerry L. Atwood, Jonathan W. Steed, 2013-10-09 The two volume Encyclopedia of Supramolecular Chemistry offers authoritative centralized information on a rapidly expanding interdisciplinary field User friendly and high quality articles parse the latest supramolecular advancements and methods in the areas of chemistry biochemistry biology environmental and materials science and engineering physics computer science and applied mathematics Designed for specialists and students alike the set covers the fundamentals of supramolecular chemistry and sets the standard for relevant future research

Kirk-Othmer Concise Encyclopedia of Chemical Technology, 2 Volume Set

Kirk-Othmer,2007-07-16 This is an easily accessible two volume encyclopedia summarizing all the articles in the main volumes Kirk Othmer Encyclopedia of Chemical Technology Fifth Edition organized alphabetically Written by prominent scholars from industry academia and research institutions the Encyclopedia presents a wide scope of articles on chemical substances properties manufacturing and uses on industrial processes unit operations in chemical engineering and on fundamentals and scientific subjects related to the field *Supramolecular Catalysis* Piet W. N. M. van Leeuwen,2008-06-25 In the past few years supramolecular chemistry has led to new approaches in homogeneous catalysis While host guest chemistry had already found applications in catalysis as a result of the pioneering work carried out by Professor Ronald Breslow and Nobel prizewinner Professor Jean Marie Lehn that began some 40 years ago the construction of catalysts by supramolecular forces has only recently become a powerful tool This development paves the way for large numbers of new potential catalysts that can be varied in an expedient way by changing the constituting building blocks Written by some of the leading contributors in the field this book is intended for both industrial and academic chemists with an interest in this area of catalysis With its discussion of topics from ligand libraries to chirality directed self assembly this is a must have for chemists with organic catalytic and polymer backgrounds as well as those employing such compounds in industrial processes

Supramolecular Photochemistry V. Ramamurthy,Yoshihisa Inoue,2011-07-07 This is the most updated comprehensive collection of monographs on all aspects of photochemistry and photophysics related to natural and synthetic inorganic organic and biological supramolecular systems *Supramolecular Photochemistry Controlling Photochemical Processes* addresses reactions in crystals organized assemblies monolayers zeolites clays silica micelles polymers dendrimers organic hosts supramolecular structures organic glass proteins and DNA and applications of photosystems in confined media This landmark publication describes the past present and future of this growing interdisciplinary area

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